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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4" P

Cand Med Sci - (diss) "Surgical treatment of valvular stenosis of the pulmonary artery by way of trans-gastric pulmonary valvulotomy." Moscow, 1961. 9 pp; (Ministry of Fublic Health given; (KL, 7-61 sup, 259)

BEREZOV, Yu.Ye., doktor med.nauk; BUKHARIN, V.A.; ZUMAREV, R.P.

Second session of the Institute of Thoracic Surgery of the Academy of Medicine of the U.S.S.R. Sov.med. 23 no.6:147-151 Je 159. (MIRA 12:9)

(CHEST--SURGERY)

BAKULEV, A.N.; KOLESNIKOV, S.A.; BUKHARIN, V.A.; ZUBARBY, R.P.

First report on the clinical use of a large vasosutural apparatus for carrying out a cava-pulmonary anastomosis in tetralogy of Fallot. Grud.khir. 2 no.2: 3-6 Mr-Ap'60. (MIRA 16:7)

1. Iz Instituta grudnoy khirurgii AMN SSSR (dir.prof. A.A.Busalov, nauchnyy rukovoditel! - akademik A.N.Bakulev). Adres avtorov: Moskva, Leninskiy prosp., d.8, Institut gradnoy khirurgii AMN SSSR.

(PULMONARY ARTERY—SURGERY) (VENA CAVA—SURGERY) (SURGICAL INSTRUMENTS AND APPARATUS) (TETRALO:Y OF FALLOT)

BAKULEV, A.N.; RYMEYSKIM, S.V.; SAVELIMEV, V.S.; BUMANOV, V.M.; ZUBAREV, R.P.; KOMAROV, B.D.; KOSTENKO, I.G.; MOROZOV, MU.I.

Now method for extracorporeal blood circulation. Grud. khir. 2 no.4:3-5 Jl-Ag 160. (MIRA 15:6)

l. Iz kliniki fakul'tetskoy khirurgii imeni Spasokukotskogo (dir. - akademik A.N. Bakulev) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova. Adres avtorov: Moskva, Leninskiy prosp.,d.8, Institut grudnoy khirurgii.

(BLOOD--CIRCULATION, ARTIFICIAL)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
SAVEL YAV, V.S., kand.med.nauk;
ZUBARNY, R.P.

Diagnosis of valvular stenosis of the pulmonary artery. Khirurgiia 35 no.6:118-123 Je '59. (MIRA 12:8)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - prof.A.N.
Bakulev) II Moskovskogo meditsinskogo instituta im.N.I.Pirogova
i Instituta grudnoy khirurgii AMN SSSR (dir. - prof.A.A.Busalov).

(ARTERIES, PULMONARY, stenosis
valvular stenosis, diag. methods (Rus))

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CIA-RDP86-00513R002065520007-4
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BAKULEV, A.N.; ZUBAREV, R.P.

Indications for pulmonary valvotomy. Grud. khir. 2 no.5:10-16 3:0 (MIRA 16:5)

1. Iz kafedry fakul'tetskoy khirurgii imeni S.I.Spasokukotskogo (dir. - akademik A.N.Bakulev) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova (dir. - dotsent M.G.Sirotkina) i Instituta grudnoy khirurgii (dir. - prof. S.A.Kolesnikov) AMN SSSR. Adres avtorov: Moskva, V-49, Leninskiy prospekt, 8, Institut grudnoy khirurgii AMN SSSR.

(PULMONARY STENOSIS) (HEART-SURGERY)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

NECHAYEV, Mikhail Aleksandrovich. Prinimal uchastiye MITROFANOV, I.A., inzh.; ZUBAREV, S.A., retsenzent; LEVIN, A.M., retsenzent; SIGAL, I.Ya., retsenzeng; KOLYADA, I.A., retsenzent; STOLPNER, Ye.B., nauchnyy red.; FEDOTOVA, M.I., ved. red.; SAFRONOVA, I.M., tekhn. red.

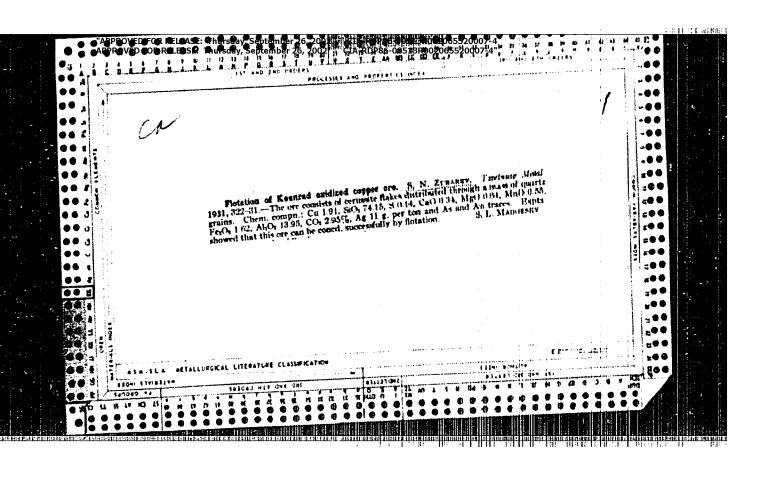
[Safety measures in the transportation, distribution, and use of gas fuel] Tekhnika bezopasnosti pri transportirovke, raspredelenii i ispol'zovanii gazovogo topliva. Izd.3., perer. i dop. Leningrad, Gostoptekhizdat, 1962. 299 p.

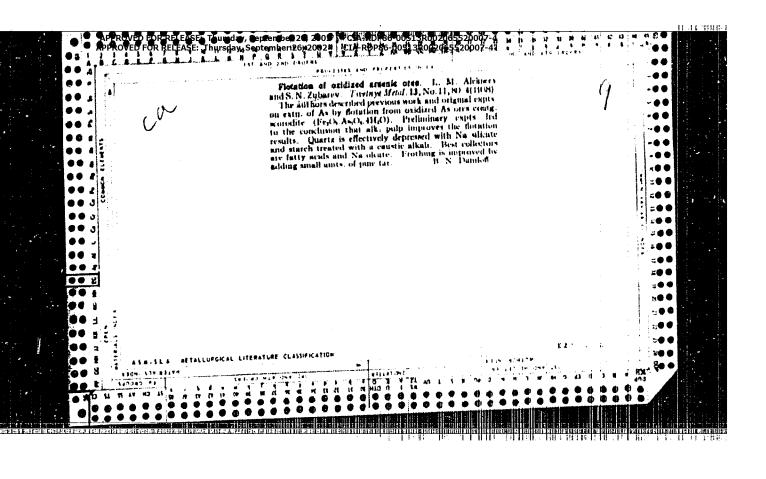
(MIRA 15:4)

(Gas as fuel-Safety measures)

SHABANOV, A.N., prof., red.; ZUBAREV, R.F., red.

[Medical manual for feldshers] Meditsinskii spravochnik dlia fel'dsherov. Moskva, Meditsina, 1965. 693 p. (MIRA 18:10)





CRAZHDANTSEV, I. I., DERKACH, V. G., ZUBAREV, S. E. (Engineers)

Manganese Ores

Magnetic separation of mangenese ores. Gor. zhur. no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952, UNCLASSIFIED.

127-58-5-17/30

AUTHORS:

Zubarev, S.N., Bobrushkin, L.G., and Golovanov, G.A.

TITLE:

Ways of Improving the Concentration Process in the Olenegorsk Plant (Puti usovershenstvovaniya skhemy obogashche-

niya na Olenegorskoy fabrike)

PERIODICAL:

Gornyy Zhurnal, 1958, Nr 5, pp 55-59 (USSR)

ABSTRACT:

Serious technological and constructional defects were discovered when the Olenegorsk Concentration Plant was opened. The iron content in the concentrate did not exceed 50 or 52%. As a result of additional investigations of the Mekhanobr Institute and practical experience of the Plant's specialists, the concentration process was rebuilt: an additional crushing of the ore down to 0.5 mm; a re-purifying of the magnetic concentrate, and an improvement of the dehydration cycle of the concentrate. The latter is now dehydrated in a special store-room by the natural drainage method. However, the process is still unsatisfactory. New improvements are suggested to attain 62% of iron content and 12 to 13% of silicon content in the concentrate; namely, development of a gravitational-magnetic

Card 1/2

<u>ं के एक ने मानक क्यां मिल्लाक क्यां स्वीत के क्यां के स्वार का किया के क्यां के अपने के अपने की अपने स्वीतिक</u>

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

1.27-58-5-17/30

Ways of Improving the Concentration Process in the Olenegorsk Plant

process and construction of a store-room, for averaging the content of ores, with a capacity of at least 100,000 tons. There are 3 diagrams, 5 tables, and 2 Soviet references.

ASSOCIATION: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific-Technical Committee of the

USSR Council of Ministers). Olenegorskoye rudoupravleniye (Olenegorsk Mine Administration)

AVAILABLE: Library of Congress

Card 2/2 1. Ores-Processing 2. Mines

KOROBOV, P.I.; KHLEBHIKOV, V.B.; LONGBOV, A.F.; SKOCKLEBKIY, A.A.; SHEVYAKOV, L.D.; H.A.! CKCV., J.; KLLESSKIT, J.V.; MCBUAL'KOV, Ye.F.; POARCVSKIY, M.A.; KALEGKO, R.P.; BOGGLYUBOV, D.P.; ALUTYUHOV, H.B.; BOYKO, V.Ye.; BRITZA, T.M.; FLDOROV, V.F.; AGODAGOV, T.I.; IA OHULKOV, A.V.; VORONIH, L.H.; IPATOV, P.M.; KAZAROV, P.P.; SKUTSKAYA, O.M.; CHIRDENKO, M.B.; FABTHOVICH, V.I.; DILVSKIY, V.N.; TROTTSKIY, A.V.; GOL'DIH, Ya.A.; DZHAPAKIDZE, Ya.A.; SHEAVLV, S.P.; KUZ ETGOV, M.K.; MALLVICH, M.A.; MAKINENKO, M.P.; LALAYHOV, G.P.; HATAFOT, F.F.; PERTSAV, M.A.; KOSSKIT, A.F.; MASHOT L.A.; SOSLDOV, O.O.; VITAL ADOV, V.S.; ZUBALOV, S.M.; SLAFARONKO, I.P.

Mikolai Mikolaevich Pater herv; an obishary. Gor. shur. no.6:76 Je 160. (MIRA 14:2) (Patrikeev, Mikolai Mikolaevich, 1890-1960)

NIKOLAYENKO, Viktor Favlovich; ZUBAREV, S.N., otv. red.; TSUKERMAN, S.Ya., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Operator of magnetic separators] Mashinist magnituskh separatorev. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornozu delu, 1961.
75 p. (MIRA 14:11)

(Magnetic separation of ores)

LYUBARETS, Ivan Mikhaylovich; ZUBAREV, S.N., otv. red.; TSUKERMAN, S.Ya., red. izd-va; BOLDTREVA, Z.A., tekhn. red.

[Tig operator] Mashinist otsadochnykh mashin. Moskva, Gos. nauchnotekhm. izd-vo lit-ry po gornomu delu, 1961. 54 p. (MIRA 14:11) (Ore dressing--Equipment and supplies)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4

ZUBAREV, S.N., gornyy inzh.

Mechanization of repair work in the crushing department of the Silver Bay Ore-dressing Plant. Gor. zhur. no.3:54-55 Mr '61.

(MIRA 14:3)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet SUSR.

(Silver Bay, Minn.—Crushing machinery—Maintenance and repair)

i de

LYUBARETS, Ivan Mikhaylovich; SWERDEL, Leonid Isaakovich; ZIBAREV,
S.N., otv. red.; KACEALKINA, Z.I., red. izd-va. MESECHANKINA,I.S.,
wekhn.red.; MAKSIMOVA, V.V., tokhn.red.
[Launder operator]Mashinist promyvochnoi mashiny. Moskva, Gosgortekhizdat, 1962. 36 p. (MIRA 15:12)

(Ore dressing-Equipment and supplies)

VINOGRADOV, V.S., inzh.; AL'TSHUIER, M.A., kand. tekhn. nauk; FOLYAKOV,

V.G., inzh.; KUROCHKIN, A.N., inzh.; KARMAZIN, V.I., doktor tekhn.

nauk; ZAIKIN, S.A., inzh.; OSTROVSKIY, G.P., inzh.[deceased];

NAUMENKO, P.I., inzh.; BOBRUSHKIN, L.G., inzh.; RUSTAMOV, I.I.,

inzh.; SHIFRIN, I.I., inzh.; GOLOVANOV, G.A., inzh.; KRASOVSKIY,

L.A., inzh.; TSIMBALENKO, L.N., inzh.; RAVIKOVICH, I.M., inzh.;

BAZILEVICH, S.V., kand. tekhn.nauk; ZORIN, I.P., inzh.; ZUBAREV,

S.N., inzh.; TIKHOVIDOV, A.F., inzh.; SHITOV, I.S., inzh.;

GAMAYUROV, A.I., inzh.; KUSEMBAYEV, Kh.N., inzh.; DEKHTYAREV,

S.I., inzh.; VORONOV, I.S., inzh.; BURNIN, G.M., inzh.; BARYSHEV,

V.M., inzh.; GOLOVIN, Yu.P., inzh.; MARCHENKO, K.F., inzh.;

FYCHKOV, L.F., inzh.; NESTERENKO, A.M., inzh.; KABANOV, V.F.,

inzh.; PATRIKEYEV, N.N., inzh.[deceased]; ROSSMIT, A.F., inzh.;

SOSEDOV, O.O., inzh.; POKROVSKIY, M.A., inzh., retsenzent:

POLOTSK, S.M., red.; GOL'DIN, Ya.A., glav. red.; GOLUBYATNIKOVA,G.S.,

red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Iron mining and ore dressing industry] Zhelesorudnala promyshlennost'. Moskva, Gosgortekhizdat, 1962. 439 p.
(MIRA 15:12)

1. Moscow. TSentral'myy institut informatsii chernoy metallurgii. (Iron mines and mining) (Ore dressing)

KARMAZIN, Vitaliy Ivanovich, doktor tekhn. nauk, prof. Frinimali uchastiye: KRUTIY, V.V.; SANZHAROVSKIY, P.A.; CUBIN, G.V.; ZUBAREV, S.N., otv. red.; ARZAMASOV, N.A., red.izd-ve; EOLDYREV, Z.A., tekhn. red.

[Modern methods of magnetic separation of ferrous metal ores]
Sovremennye metody magnitnogo obogashcheniia rud chernykh
metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 658 p. (MIRA 15:3)

(Magnetic separation of ores) Iron ores)

ZUBAREV, S.N., gornyy inzh.

Barker mill (from foreign literature). Gor.zhur. no.1:74-75 Ja 163. (MIRA 16:1) "APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

ZUBAREV, S.N., gornyy inzh.

Iron ore dressing plants in the U.S.A. and Cunada. Gor. zhur. no.9:70-74 S \*63. (MIRA 16:10)

IZRAITEL', S.A., otv. red.; SKURAT, V.K., otv. red.; ZUBAREN,
S.N., otv. red.; MOISEYEV, S.L., otv. red.; ASTAF YEVA,
A.V., kand. tekhn. nauk, red.; VAS KOVSKIY, Te.L., red.;
VISHNEVSKIY, Ye.L., red.; KRIVTSOV, B.S., red.; KOROTKIN,
I.N., red.; MITROFANOV, S.I., doktor tekhn. nauk, red.;
HORKIN, V.V., kand. tekhn. nauk, red.; RIUDNEV, A.P., red.; SLASTUNOV, V.G., red.; TKACHEV, F.A.,
red.; RAUKHVARGER, Ye.L., kand. tekhn. nauk, red.;
FEOKTISTOV, A.T.[deceased], red.; ZAYTSEV, A.P., red.

[Safety regulations for the dressing and sintering of ferrous and nonferrous metal ores] Pravila bezopasnosti pri obogashchenii i aglomeratsii rud tsvetnykh i chernykh metallov. Moskva, Nedra, 1964. 106 p. (MIRA 18:4)

1. Russia (1917- R.S.F.S.R.) Gosudarstvermyy komitet po nadzoru za bezopasnym vedeniyem v promyshlenmosti i gornomu nadzoru.

KOVALEVSKIY, P.M., prof.; PUTYATIN, V.M., dotsent; SKALINA, Ye.P., dotsent; ZUBAREV, T.A., vrach

Late results of surgical treatment of chronic coremary insufficiency by bilateral ligation of internal theracic arteries. Uch. zap. Stavr. gos. med. inst. 12:223-224 163.

(MIRA 17:9)

l. Kafedra gospital'noy khirurgii (zav. prof. P.M. Kovalevskiy), kafedra gospital'noy terapii (zav. prof. I.N. Sergiyenko) Stavropol'skogo gosudarstvennego meditsinskogo instituta i kabinet funktsional'noy diagnostiki Stavropol'skoy krayevoy klinicheskoy bol'nitsy (zav. Frach T.A. Zubarev).

KARASHUROV, Ye.S., kand. med. nauk, ZUBAREY, T.A.

Comparative data on electrocardiography and ballistocardiography in bronchial asthma before and after the removal of the carotid gland. Uch. zap. Stavr. gos. med. inst. 12:254-255 '63. (MIRA 17:9)

l. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich), kafedra normal'noy fiziologii (zav. zasluzhennyy deyatel' nauki, prof. V.G. Budylin) Stavropol'skogo gosudarstvennogo meditsinskogo instituta i kabinet funktsional'noy diagnostiki (zav. T.A. Zubarev) Stavropol'soy krayevoy klinicheskoy bol'nitsy.

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21(9)

AUTHOR:

Zubarev, T. N.

807/89-5-6-1/25

TITLE:

A Pulsed Reactor (Migayushchiy reaktor)

PERIODICAL:

Atomnaya energiya, 1958, Vol. 5, Nr 5, pp 605-617 (USSR)

1.11.11

ABSTRACT:

This reactor, which was developed between 1954 and 1955, uses enriched uranium salt, which is dissolved in water, as active material. At a certain time, the core of the reactor (a spherical vessel) is filled with the uranium solution and the bottom of the condenser is covered by it. If the mobile reflector is not in the reactor, the reactor is in its subcritical state. If the reflector has however been driven into the reactor, in which case it covers the active zone entirely, the reactor is in its supercritical state. Driving in of the reflector takes place at a time in which the uranium solution finds practically no time to heat up in the active zone. In the further course of events intense heat transfer takes place in the core, and the specific volume of the solution increases. As a result, part of the solution reaches the condenser through certain channels. In this case, pressure in the core of the reactor is greater than the saturation pressure, and no vapor can form in the

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A Pulsed Reactor

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condenser. In other cases no sufficiently effective ignition of neutrons can be attained when the solution boils. If 5-10 % of the solution reaches the condenser from the core, the reactor again becomes subcritical and the neutron flux decreases exponentially. At the same time, pressure in the core drops considerably. At the end of the neutron burst, the core of the reactor is filled with an overheated liquid, which expands practically adiabatically when entering the condenser. Wet vapor is formed. The vapor condenses and reaches the bottom of the condenser, from where it is conveyed through channels back to the core of the reactor. The cycle can then begin afresh.

condenser, from where it is conveyed through channels back to the core of the reactor. The cycle can then begin afresh. The mobile reactor consists of two parts. Each of them is fastened to the rim of a wheel moving with constant velocity. The size of one of the sectors of the mobile reflector is arranged in such a manner that, when the reflector is conveyed past the core, the latter remains in the subcritical state. If both sectors are conveyed past the core simultaneously, the reactor becomes critical.

For a 5 MW-reactor the following parameters were calculated: Volume of core ~15 1; 1 kg U<sup>235</sup> in the active section;

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A Pulsed Reactor

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cooling surface of the condenser ~18 m²; volume of the condenser ~200 l; diameter of the wheel ~1 m; angle velocity of the wheel ~850 revolutions per minute. Average thermal neutron flux in the core ~10<sup>14</sup> n/cm².sed . Maximum neutron flux ~10<sup>17</sup> n/cm².sed (at the time of neutron burst). If several pulsed reactors, the neutron bursts of which are shifted with respect to time, are connected with one another in an aggregate, the average neutron flux can, in proportion to the number of reactors, be raised up to a value of ~10<sup>17</sup> n/cm².sec . A pulsed reactor can be used both for the generation of energy and as an atomic piston motor. The following parameters of the pulsed reactor are dealt with in detail:

- a) Degree of efficiency of the thermodynamic cycle.
- b) Selection of the proper working temperature of the uranium solution.
- c) Density, temperature of the solution and neutron density in the active section.

d) Pressure in the active section,

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A Pulsed Reactor

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In conclusion, the author thanks I. V. Kurchatov, Academician, for the interest he displayed in this work, Yu. N. Zankov for discussing results, and A. K. Sokolov for assisting in a number of calculations. There are 14 figures and 4 Soviet references.

SUBMITTED:

August 7, 1958

Card 4/4

807/89-6-5-10/33

21(9) AUTHORS:

Zubarev, T. N., Sokolov, A. K.

TITLE:

On the Calculation of Heat Generation in a Shut-down Reactor

(K raschetu teplovydeleniya v ostanovlennom reaktore)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 5, pp 564-565 (USSR)

ABSTRACT:

Owing to the presence of delayed neutrons heat continues to be generated also in a shut-off reactor. In order to determine this heat generation, it is necessary to solve the non-steady neutron diffusion equation. The dependence of the neutron flux  $\varphi$  in the shut-off reactor upon the time t is of very complicated character and numerical solution is difficult. A simplified formula is given, which describes heat generation very wall:

$$\frac{\phi(t)}{\phi_o} \approx \frac{e}{e + \beta} \exp\left(-\frac{e + \beta}{T} t\right) + \sum_{i=1}^{m} \frac{\beta_i}{e + \beta} \exp\left(-\frac{e}{e + \beta} \lambda_i t\right)$$

$$\beta = \sum_{i=1}^{m} \beta_i$$

Card 1/3

where  $\phi(t)$  = neutron flux as function of the time t,

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On the Calculation of Heat Generation in a Shut-down Reactor

- $\phi_0$  = neutron flux at the time of shutting off the reactor,
- q = reactivity of the time of shutting off,
- β = total yield of delayed neutrons,
- 3, fraction of delayed neutrons of the i-th group,
- T = life-time of neutrons in the reactor,
- A decay constant of the nuclear fragments of the i-th group,
- m = number of groups of delayed neutrons.

Calculation by means of the formula given is comparatively simple. The values for heat development are obtained with sufficient accuracy for all negative reactivities. In the case of negative reactivity | Q|>0.03 calculation results obtained by using the non-steady neutron diffusion equation practically coincide with those obtained by the above simplified method. There are 1 figure and 1 reference.

Card 2/3

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ZUBAREV, V., polkovnik

Ideplogical gangsters. Komm. Vooruzh. Sil 4 no.1:87-91 Ja '64.
(MIRA 17:9)

ZUBAREV, V. (Leningrad)

"Leti-55" remote control projector. Sov.foto 20 no.2:34 F \*60. (MIRA 13:7)

(Motion-picture projectors)

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ZLOBIN, Pavel Iosifovich; ZUBARKY, V., red.; KONDRAT'YNVA, A., red.; TELEGINA, T., tekhn.red.

[Accounting for capital construction] Bukhyalterskii uchet kapital'nogo stroitel'stva. Izd.2., perer. Moskva, Gosfin-izdat, 1960. 455 p. (MIRA 13:8) (Construction industry--Accounting)

ZUBAREV, V.

The flourishing Soviet economy. Voen.znan. 37 no.7:5-6 Jl 161. (MIRA 14:6) (Russia--Economic conditions)

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ZUBAREV, V.A.; SIDOROV, P.A.; ARISTOV, A.D., polkovnik, red.; ANIKINA, R.F., tekhn.red.

[Manual for officers studying Marxist-Leninist theory; a collection of articles] V pomoshch' ofitseram, izuchaiushchim marksisteko-leninskuiu teoriiu; sbornik statei. Moskva, Voen.izd-vo M-va obor. SSSR. 1959. 413 p. (MIRA 12:4)

(Military art and science)

ZUBAREV, V.A.

Gluing map on parts in electrostatic fields. Biul. tekh. -eksa.
inform. no.6:42-43 '58.
(Protective coatings)

## ZUBAREV, V.A., assistent

Certain aspects of hospital construction. Gig. 1 san. 24 no.9:59-61 S '59. (MIRA 13:1)

1. Iz kafedry kommunal noy gigiyeny Omskogo meditsinskogo instituta imeni M.I. Kalinina.

(HOSPITAL, PLANNING AND CONSTRUCTION)

TAPPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520007-4\*

ZUBAREV, V.R.; KHLESTOV, V.M.

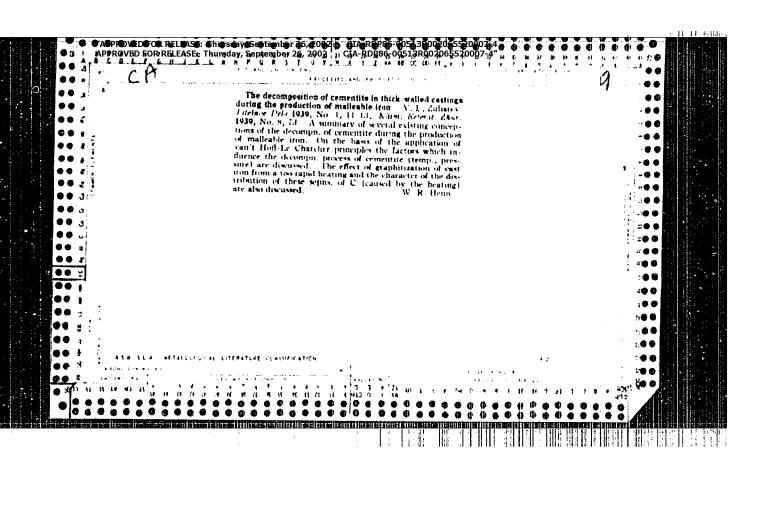
Effect of zirconium on the tempering of alloyed structural steel.

Izv. vys. ucheb. zav.; chern. met. 6 no.6:143-147 '63.

(MIRA 16:3)

1. Zhdanovskiy metallurgicheskiy institut.

(Steel, Structural--Metallurgy) (Tempering)



"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4" CIA-RDP86-00513R002065520007-4"

"Increase in the Strength of Pail Joints," Stal', No. 4, 1748. Card. Technical Sci. Mor., Siberia Metallurgical Inst., c-1748-.

APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4" CIA-RDP86-00513R002065520007-4"

TU. V. GREIDA, L. E. FIRMMSOLVICH, A. .. MASTORMOV, W. I. OF ..., P. A. SCROBCLOV, V. F. AUSACLY, L. A. GEVERTY:
In a Russian Symposium of layors entitled "Heat Trentment of Rails", edited by I. I. Bardin and published by the Soviet Academy of Science, Loscow 1950, The following articles appeared: Lethods of prevention of flake Preschiot.

DC: 886103

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R00206552000

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ZIBARRY. Viedinir Federavich. doktor tekhnicheskikh nauk, professor:

LANDA, A.F., doktor tekhnicheskikh nauk professor, retsenzent;

KUNYAVSKIY, M.N., kandidat tekhnicheskikh nauk, redaktor

[decessed]; BALANDIN, A.F., redaktor izdatel'stva; TIEHANOV.

A.Ya., tekhnicheskiy redaktor

[Theoretical principles of the graphitization of white iron and steel] Teoreticheskie osnovy grafitizatsii belogo chuguna i stali. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 222 p. (MLRA 10:6)

(Iron--Motallurgy) (Steel--Metallurgy)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-ROP86-00513R002065520007-4"

ZUFALEV, V.S., doktor tekhn. rask; KELEATO, V.S., doktor tekhn. rask; K

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 Eining September 26, 2002

ACCESSION NR: AR4036263

8/0131/64/000/003/1053/1053

SOURCE: Referativnywy shurnal. Metallurgiya, Abs. 31313

AUTHOR: Zubarev, V. F.; Khlastov, V. M.

TITLE: Effect of sire-mium on the proportion of structural allow stank

CITED SOURCE: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, vy\*p. 11, 1963, 171-178

TOPIC TACS: zirconium steel, boron steel, zirconium structural steel

TRANSLATION: A study was made of the effect of Zr (up to 0.58%) on the structure, mechanical properties, hardenability, and brittleness at negative temperatures of the steels 35KhG, 35KhGR, 35KhGV, and 35KhGVR. The steel was malted in an electric arc furnace; after deoxidizing with aluminum Zr was introduced in the form of briquets prepared from powders of Fe and Zr. When Zr is introduced into the steel, a considerable refinement of sulfides is observed. No sircumium inclusions were observed in experimental industrial melts containing 0.03% Mr, and the steels were very pure with respect to nommetallic inclusions. An appreciabile increase in the

Card 1/2

ACCESSION NR: ARLO36263

hardenability of these steels was observed after introduction of small amounts of creases the hardenability still more. In specimens 16 mm in diameter, 3r has no plasticity in steels containing 8. In large cross sections (260 mm), 2r raised the lits mechanical properties, 3KMAVTS steel. (C 0.37%, Mn 0.98%, Gr 0.95%, W 0.45%, served in steel with 2r at ~70°. N. Kalinkina.

DATE ACQ: 17Apróli

SUE COME: ML

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ACCESSION NR: ARL036263

hardenability of these steels was observed after introduction of small amounts of small amounts of creases the hardenability still more. In speciments 18 mm in diameter, 3r has no plasticity in steels containing 8. In large cross sections (260 mm), 2r raised the served in steel with 2r at ~70°. N. Kalinkina.

BATE ACQ: 17Apróli

SUE COME: ML

RIGL: 00

KHLEST V, V.M.; ZUBAREV, V.F.; LEONT YEV, B.A.

Effect of zirconium on the stability of austenite and the hardenability of 35KhG, 35KhGR and 35KhGB steels. Isv. vys. ucheb. zav.; chern. met. 6 no.10:113-119 '63. (MIRA 16:12)

1. Zhdanovskiy metallurgicheskiy institut.

TKACHENKO, F.K.; ZUBAREV, V.F.

Distribution of silicon between the phases of Fe-Si-G alloys.

Lit. proizv. no.8:31-32 Ag '62. (MIRA 15:11)

(Iron-silicon-carbon alloys--Metallography)

(Phase rule and equilibrium)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00S13R00206552e0007-4\*

IEONT'YEV, B.A.; ZUBAREV, V.F.

New conditions for the heat treatment of large forgings of alloyed steel. fzv. vys. ucheb. zav.; chern. met. 5 no.8:135-142 '62. (MTRA 15:9)

1. Zhdenovekiy metallurgicheskiy institut. (Steel forgings—Heat treatment) ZUBAREV, V.F.; KHLESTOV, V.M.

Effect of zirconium on the size of an austenite grain during the heating of alloyed structural steel. Izv. vys. ucheb. zav.; chern. met. 6 no.12:141-146 163. (MIRA 17:1)

1. Zhdanovskiy metallurgicheskiy institut.

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ZANNES, A.N.; SAPELKINA, O.R.; ZUBAREV, V.F.; DEMAKOVA, A.V.; PEREVERZEVA, Ye.G.

Effect of conditions of self-tempering and furnace tempering on the mechanical properties of rails hardened along their entire length by heating with high frequency currents. Izv. vys. ucheb. zav.; chern. met. 7 no.2:118-123 64. (MIRA 17:3)

1. Zavod "Azovstal" i Zhdanovskiy metallurgicheskiy institut,

THE SECTION

TKACHENKO, F.K., kand.tekhn.nauk; ZUBAREV, V.F., doktor tekhn.nauk; KUDRYAVTSEVA, L.N., inzh.

Mechanism of the formation of graphitization nuclei in prehardened white cast iron. Mashinostroenie no.1:50-53 Ja-F '62. (MIRA 15:2)

(Cast iron-Metallography)

\$/137/62/000/003/168/191 A160/A101

1.2360

Zubarev, V. F.; Pereverzeva, Ye. G., Demakova, A. V.; Tarasova, L. P. AUTHORS:

The effect of arsenic on the mechanical properties of welded TITLE:

joints of the mi (3 (MSt.3) steel

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 6 - 7, abstract PERIODICAL:

3E39. (Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1960, vyp. 6,

213 - 225)

Investigations were conducted on the heterogeneity and mechanical properties of a welded joint of the MSt.3 arsenic steel. The investigations were carried out with metal cut out from different ingot parts, such as the upper, middle and lower part at a concentration of 0.14 - 0.26 % As and 0.14 - 0.22 % C. The tests yielded the following results: (1) The built-up metal of the welded joint considerably differs from the base metal as to its chemical composition. The content of Mn and Si in the built-up Me of the St3 killed steel increases in relation to the base metal 1.5 - 2 times, the content of C and As decreases 1.5 -- 2 times. (2) The content of Mn and Si in the built-up metal and in the killed

Card 1/3

S/137/62/000/003/162/191 A160/A101

The effect of arsenic on ....

and rimmed steels corresponds to the equilibrium concentrations between the liquid flux and metal at weld-bath temperatures of 2000 and  $1575^{\circ}$ C. (3) A liquation of impurities is appearing in the base and built-up Me along the length of the ingot bloom. The upper, and to a lesser degree the middle section of the ingot bloom are enriched with S, P, C and As. (4) An effect of the As on the macrostructure is not detected, and an effect on the macrohardness of the main zones of the welded joint is clearly detected: an increase in the content of As  $\mathbb{R}_{>}$  0.01  $\mathbb{R}$  causes an increase of  $\mathbb{R}_{\mathrm{B}}$  by 1.0. An increase of  $\mathbb{C}$  would similarly affact the hardness. (5) The mechanical properties along the length of the ingot bloom are heterogenous. When passing from the upper to the bottom part of the ingot, the strength properties decrease, the plasticity properties and ak increase. (6) An increase of the content C and As improve the strength properties and decrease the plasticity properties. An increase of the C content by 0.01 % increases - in the killed and rimmed steels - the 68 by 0.7 kg/mm² and decreases 6 by 1.2 %. The effect of As~ is 2 times weaker. (7) When containing 0.14 . 0.26 % As, the ak of a welded joint of the St3 arsenic steel has a high level (9 - 30 kgm/cm2), . i.e., a higher one than in a St3 non-arsenic steel. (8) The Me of a welded joint

Card 2/3

The effect of arsenic on ....

· S/137/62/000/003/162/191 A160/A101

of the MSt.3 steel with 0.26 % As possesses satisfactory mechanical properties.

V. Tarisova

[Abstracter's note: Complete translation]

Card 3/3

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	Hanter, R. Ve., Dector of Technical Sciences, 150 per 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,		Mobium Steel	A, D., Candidate of Technical Saiencea (Moses A High-Temperature Heating on the Strength Pro Steel	ું કુંુન	Kostyrko, O. S., Engineer, Ye. P. Dubryanding's Rational (Aagmitegensk), and M. P. Braun. Development of a Rational Heat-freatment Regime for Large Foreitage	Physical Habilingy (Cont.)	Vinctur, B. B. (Kiyev). Heat Realstance of Various Alleyed Seels	. S., Engineer, and V. K. Titoy (Mikela	Burin, K. P., Corresponding Reaber of the Academy of Selences, Ugranian SSY (Disperoprientiel), and A. V. Chempwol, Candidate of Technical Selences (Flyry). On the Oraphite Greath in Cast Iron	Zubarev, W. P., Doctor of Technical Sciences, Professor, and F. K. Frachenics, Engineer (Endanov). On the Hochanica of the Eliter Influence on Graphitising	Pepous, N. H., Engineer (Kharikov). Investigation of the growth of dray Cant limin	Yatsonko, A. I., Engineer (Daspropatrovsk). Structural Changes in Austenitaing Ferritic Magnesium Irwn	c25 (Cont.) SOV/531	Zubarev, V. P., Doctor of Technical Sciences, Professor, F. K. Fractionics, and L. N. Kudrysvis-v (Indinov). Fornation of Graphitzation Genera and Special Practices of Their Distribution in the Amerika of Grand-Additional Entire Grass Ind.	Titow, V. K., Engineer, and V. S. Vanin (Nivolayer). The Quenching of white dast live and its Effect on the Graphitization of Segregated Comentite	Dubrov, V. V., Engineer (Klyev). Investigating the Inothermic freemposition of Generalts in Hunginess Carl Iron	Robio, Yu. G., Candidate of Technical Sciences, Desent (Marrikov), Effect of Certain Elements on the Properties of Pagenties of Pagenties Cant Irons	Kwashijus, Ye. I., Engineer (Noseev). Optimus Heating and Cooling Mares in Amealing of High-Strength Syndretdelle Graphite Iron Castings	Physical Estailurgy (Cont.)	Kononeva, T. A., Engineer (Moucow). Investigating the Properties of Guenched Mangaiere Cast Iron	Bykhavakiy, A. 1., Engineer (Kayev), Effect of Heat Treathent on the Transformation of Walte In Into Gray	

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

ZUBAREV, V.F. (Zhdanov), TEACHERURO, F.K. (Zhdanov)

Effect of preliminary heat treatment on the graphitization of white cast iron. Izv. AH SSSR. Otd. tekh. nanh. Met. i topl. no.6: 19-24 N - D '60. (MIRA 13:12)

(Cast iron--Ketallography)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZUBAREV, V.F. (Zhdanov); TKACHENKO, F.K. (Zhdanov)

Effect of transition stress in pig iron during passage through the eutectoid point. Izv. AN SSSR. Otd. tekh. nauk Met. i topl. no.2:113-155 Mr-Ap '59. (MIRA 12:6) (Cast iron--Metallography)

(Phase rule and equilibrium)

BOV/180-59-2-21/34

Zubarev, V.F., and Tkachenko, F.K. (Zhdanov) AUTHORS:

The Influence of Inter-Phase Stress on Cast Iron in the Transition over the Eutectoidal Point (0 vliyanii TITLE:

mezhdufazovykh napryazheniy v chugune pri perekhode

cherez evtektoidnuyu tochku)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 113-115 (USSR)

ABSTRACT: It has been considered (Refs 1, 2) that tensile stresses arising in cementite affect its stability, increasing the graphitization rate. Graphitization is also accelerated by the presence of micro-pores, whose formation is promoted by the stresses. The authors have determined the order of magnitude of the stresses. Dilatometric curves were obtained with a differential dilatometer for curves were obtained with a difficult and a white iron almost purely perlite type 6052 steel and a white iron (2.5% C, 1.3% Si) whose Acl point was equal to that of the steel (Figs 1 and 2, respectively). On the basis the steel (Figs 1 and 2, respectively). the steel (Figs 1 and 2, respectively). On the basis of an equation (Refs 3, 4) for the total stress produced by thermal expansion and using published data on modulus

of elasticity (Ref 5) and shear modulus (Ref 6) of carbon steel, the authors calculate the value of Card 1/2

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SOV/180-59-2-21/34

The Influence of Inter-Phase Stress on Cast Iron in the Transition over the Eutectoidal Point

Poisson's ratio and arrive at - 22.3 kg/mm<sup>2</sup> as the value of the average tensile stresses in austenite. From a consideration of volume changes and deformation, the authors calculate the total compression stress at the Arl point to be 31.7 kg/mm<sup>2</sup>. The stresses in camentite are of the same order but of opposite sign, this agreeing well with the published value.

Card 2/2 There are 2 figures and 8 references, 5 of which are

SUBMITTED: July 7, 1958

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

## ZUBAREY. Y.F.

Reply to K.P. Bunin, IA. V. Grechnyi and others. Izv.vys.ucheb. zav.; chern.met. no.10:145-146 0 58. (MIRA 11:12)

1. Zhdanovskiy metallurgicheskiy institut.
(Austenite) (Phase rule and equilibrium)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZUBLERV, V.F., prof.,doktor tekhn.nauk; SINITSYNA, T.F., insh.

Structural characteristics of black-heart malleable cast iron close to voids and cavities. Sbor.mauch.trud. Zhdan.met.inst. no.4:157-168 '57. (MIRA 11:11) (Cast iron--Metallography) (Gases in metals)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4"
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4"
TRACHERRO, F.K., insh.; ZURAHRY, V.F., prof., doktor tekhn.nauk.

Transformations occurring during the heating of hardened white iron. Metalloved. 1 obr. met. no.9:24-26 S \*58.

(MIRA 11:10)

1.Zhdanovskiy metallurgicheskiy institut.

(Cast iron---Metallography)

eptember 26, 2002 CIA-RDP86-00513R002065520007-4 D FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4"

137-58-6-13363

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 316 (USSR)

Zubarev. V.F., Sinitsyna, T.F. AUTHORS:

Structural Peculiarities of Iron in the Vicinity of Voids and TITLE:

Cavities (Osobennosti struktury chernoserdechnogo kovkogo

chuguna vblizi pustot i rakovin)

PERIODICAL: Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1957, Nr 4,

pp 157-168

The purpose of the work performed was the investigation of structural changes occurring in bull's eye malleable iron in the ABSTRACT:

proximity of voids and cavities. Investigations were carried out on cast iron of type KCh 33-8 with the following chemical composition: 2.5-2.8% C, 0.8-1.4% Si, 0.4-0.6% Mn, less

than 0.12% 5, and less than 0.14% P. After annualing at temperatures of 880-975°C, the cast-iron components were normalized at a temperature 880-860° for a period of 17-22

minutes. The heat treatment cycle required 51 hours. The RB had a value of 89-97. The following facts were establish-

ed: 1. Gas blisters, shrin age cavities and porosities cannot serve as zones of separation of graphite owing to the fact that

Card 1/2

137-58-6-13363

Structural Peculiarities of Iron in the Vicinity of Voids and Cavities

they are always filled with gases which prevent the formation of graphitization centers. 2. The presence of large quantities of gas results in the formation of a decarburized layer which is obtained during high temperature annealing operations. 3. Grain boundaries do not serve as cavities for sepmovement of C atoms. 4. The experiments revealed characteristic pecumiarities of graphitization in the vicinity of the shrinkage cavities. The assumption that these cavities serve as centers for accumulation of graphite tion of a decarburized zone and a graphite network, both of which impair the quality of the cast iron, is inevitable in the vicinity of such cavities.

Cast iron--Processing
 Cast iron--Structural analysis
 A.S.

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

ZUBAREV, V.F., doktor tekhn. nauk, prof.

Basic principles of the physicochemical theory of white cast iron and steel graphitization. Isv. vys. ucheb. sav.; chern. met. no.4: 133-141 Ap 58. (MIRA 11:6)

Zhdanovskiy metallurgicheskiy institut.
 (Cast iron--Metallography) (Steel--Metallography)

80V/129-58-9-5/16

AUTHORS: Tkachenko, F.K., Engineer and Zubarev, V. E., Doctor of

Technical Sciences, Professor

TITLE: Transformations During Heating of Hurdaned White Iron

(Prevrashcheniya pri nagreve zakalenmogo belogo

chuguna)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 9,

pp 24-26 (USSR)

ABSTRACT: The authors carried out a combined investigation of the

internal transformations taking place in non-hardened and hardened cast iron by means of simultaneous photo-recording of the thermal, dilatometric and magnetic curves during the process of heating and cooling of the

specimen. The experiments were carried out on a specially designed dilatometer fitted with a photo-

recording. The thermal curve was recorded by means of a light point reflected from the curved mirror of a mirror galvanometer which was joined to the thin  $(\tilde{a} = 0.5 \text{ mm})$  chromel-alumel thermocouple. For recording the e.m.f.

variations in an inductance a furnace was used, the

Card 1/3 heating element of which was the primary winding, whilst the secondary winding was a coil of michrome wire wound

807/129-58-9-5/16

Transformations During Heating of Hardened White Iron

onto the quartz tube of the dilatemeter. For compansating the induction e.m.f. a compensating coil was connected in series with the secondary coil. Into the circuit of the secondary coil ar oscillograph loop was connected as shown in the sketch, Fig.1. All the curves were recorded simultaneously on a single sancitive paper which was fitted onto a rotating drum. The investigations were carried out on 5 mm dia, 50 mm long specimens of the steels U10 and 60S2 and white iron, the compositions of which are entered in Table 1. determined thermal, dilatometric and magnetic curves of the heating and cooling processes are graphed in Fig. 2; in Fig.3 the differential dilatometric curves of heating and cooling are graphed for the naterials in the hardened state. The following conclusions are arrived at: 1. Magnetic transformation of the ferrite which enters into the structure of commercial white iron takes place below the Ac, point.

Card 2/3

2. At the temperatures of the second transformation, a transformation of the residual austenite into martensite and a magnetic transformation of the carbide of an

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

Transformations During Heating of Hardened White Iron

unknown composition take place.
3. An increase in the permeability in the temperature range of the third transformation is attributed to eliminating the internal stresses in the a-phase.
There are 3 figures, 1 table and 1 Soviet reference.

ASSOCIATION: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute)

1. Cast iron--Transformations

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

ZUBAREV. V.F.; TRACHENTO, F.K.

Position of equilibrium lines in the right-hand part of the iron-carbon equilibrium diagram. Lit. proisv. no.3:28 Nr 158. (KIRA 11:4)

(Phase rule and equilibrium)

Category : USSR/Solid State Physics - Phase Transformation in

Solid Bodies

Abs Jour : Ref Zhur ~ Fizika, No 3, 1957, No 6629

Author : Zubercy, V.F.

Title : Effect of Stresses on the Formation of Centers of Graphiti-

E-5

zation in the Anneeling of thite Cast Iron.

Orig Fub : Liteynoyc proiz-vo, 1956, No 8, 21-25

Abstract : No abstract

Card : 1/1

Category : USCR/Colld State Physics - Phase Transformation in

E-5

Abs Jour : Ref Zhur - Fizike, No 3, 1957, No 3629

Zubercy, Y.F. Effect of Stresses on the Formation of Centers of Graphiti-Title

zation in the Innerling of thite Cest Iron.

Orig Fub : Liteynoye proiz-ve, 1956, No 8, 21-25

Abstract : No obstract

Card : 1/1 The Investigation of the Microscopic Heterogeneity 507/32-24-7-23/65 of the Silicon Distribution in Steel by Surface Oxidation

steel (cemented dynamo steel) with an equal content of admixtures is given. The difference in the color of the greenish oxide film and of the red-yellow not oxidized layer may be clearly seen. An increased resistance to oxidation in the directions of the dendrite axes is mentioned. Another figure showing a 6082 steel sample (with 0,57% of C, and 1,72% of Si), containing less silicon, shows a considerable reduction of the oxidation resistance and thus a green coloring. It was found with this method that silicon exhibits a tendency for a dendrite liquation. It is assumed that no "reversible" silicon liquation exists. There are 4 references, which are Soviet.

ASSOCIATION:

Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute)

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4\*

ANDRIANOVA, T.N.; ZUBAREV, V.I., red.

[Throttling of games and vaporu; a lecture] Drosseliro-vanie gazov i parov; lektsiia. Pod red. V.I.Zubareva. Mosk. energeticheskii in-t, 1962. 23 p. (MIRA 1714)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520007-4 CIA-RDP86-00513R002065520007-4"

ZUBAREV, V.I.; HEREGOVSKIY, V.I.; FIGURKOV, I.V.

Transfer to oxygen-blown smelting of the Almalyk Copper Smeltery and an increase in its capacity. TSvet. met. 36 no.8:6-9

Ag '63. (MIRA 16:9)
(Almalyk-Copper industry) (Oxygen-Industrial applications)

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ZUBAREV, V.I.

Some problems of expanding the copper smelting industry in central Kazakhstan. TSvet. met. 32 no.3:1-4 Mr '59" (MIRA 12:5)

1.Karagandinskiy sovnarkhoz.
(Kazakhstan--Copper industry)

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TITLE:

Some Problems in the Development of the Copper-smelting Industry of Central Kazakhstan (Nekotoryye voprosy razvitiya medeplavil'noy promyshlennosti tsentral'nogo Kazakhstana)

PERIODICAL: Tsvetnyye Metally, 1959, Nr 3, pp 1 - 4 (USSR)

ABSTRACT: Central Kazakhstan is to play a major part in the 1.9-fold

increase in copper production envisaged in the seven-year plan. The author discusses some of the main technical problems involved at three of the local enterprises. At the Balkhashskiy gerno-metallurgicheskiy kombinat (Balkhash Mining-metallurgical Combine), the Kounradskiy Mine, the rate of stripping in 1960 as to be double that in 1958 and much re-equipment will be required in 1959. The author states that the Gosplan SSSR is not taking the steps necessary to accelerate the production of high-productivity equipment for open-cast mining and flotation - e.g. the failure to organise the timely production of "Mekhanobr-7" flotation machines which were supposed to have come into service in 1958. On the metallurgical side,

Cardl/4 the author considers, the combine will only attain the

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स्रोकस्त्र हरायन अर्थिता क्षेत्र वास्त्र का विश्व हरा है। अस्त विश्व का स्वाप्त हराय हराय है। अस्त का स्वाप्त स्रोकस्त्र हरायन अर्थिता क्षेत्र वास्त्र का स्वाप्त हराया हराया हराया है। अस्तर वास्त्र वास्त्र वास्त्र वास्त्र

proposed copper output by replacing reverberatory smelting by, for example, cyclonic or oxygen (autogenous) smelting. The latter promising method cannot yet be adopted there because of delay in research and development work, but a start will be made in 1959 on the introduction of the former. By the start of 1960, working plans for the reconstruction of the copper-smelting plant must be ready for the work to start in the same year; the oxygen plant has already been commissioned. For solving the problem of increasing recovery of rare metals, the works should have the Esistance of the AN Kazakh SSR (Ac.Sc. Kazakh SSR) and the Gintsvetmet and VNIItsvetmet Institutes. At the Dzhezkazganskiy gorno-metallurgicheskiy kombinat (Dzhezkazgan Mining-metallurgical Combine) cre output is to increase 2.8-fold in the next seven years. This is to be achieved by increasing open-cast mining and the adoption of new underground mining methods. Here, too, equipment supply is likely to be a delaying factor and the author urges prompt aid by the Gosplan of the USSR and GNTK of the

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Sovet Ministrov SSSR (Council of Ministers of the USSR). The ore beneficiation plants are to be reconstructed and for dealing with oxidised and mixed cres the method of Professor Mostovich or hydro-metallurgical techniques should be suitable; for the solution of this problem the combine should have the help of Gintsvetmet, Mekhanobr, and VNIItsvetmet organisations and the Ac.Sc. KazSSR; the author considers the proposal of Giprotsvetmet that no hydrometallurgical plant should be included in the plans of the Dzhezkazgan Copper-smelting Works premature, and regrets the proposed use of reverberatory smelting on the grounds that this is out of date. He favours electric smelting of pre-calcined concentrates, in which laboratory work is proceeding at the Kazakh Mining-metallurgical Institute and urges the rapid solution of the problems involved by this Institute and Gintsvetnet, VNIItsvetmet, Giprotsvetmet and the Academy of Sciences of the KazSSR. At the same time the linking of the region to the Karaganda power grid should be pushed ahead.

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The seven-year plan provides for the construction of the Boshchekul'skiy gorno-obogatitel'nyy kombinat
(Boshchekul' Mining-beneficiation Combine). The Mekhanobr
and Unipromed' Institutes should renew their studies of the local ores and the Irtysh-Boshchekul' section of the Irtysh-Karaganda canal should be given priority.

Karagandinskiy sovnarkhoz (Karaganda Economic Council) ASSOCIATION:

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Electric smelting for matte in copper metallurgy; a reply to l.M.Gazarian. TSvet.met. 28 no.1:33-41 Ja-F 155. (MIRA 10:10)

(Copper--Electrometallurgy) (Gazarian, L.M.)